Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	18	(((byzantine with fault) not (byzantine with group)) not (((byzantine with fault) not (byzantine with group)) and director$3)) and (distribut$3 with computer$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/28 19:38
L2	1	(distribut$3 with file with system) and (((byzantine with fault) not (byzantine with group)) not (((byzantine with fault) not (byzantine with group)) and director$3))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/28 19:39
L3	84	byzantine with fault	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/28 19:39
L4	17	byzantine with group	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/28 19:39
L5	7	((byzantine with fault) not (byzantine with group)) and director$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/28 19:39
L6	29	(((distribut$3 with file with system) and director$3) and (hierarch$5 with namespace)) and (director$3 with entr$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/28 19:40
L7	30	((((distribut$3 with file with system) and director$3) and (hierarch$5 with namespace)) not ((((distribut$3 with file with system) and director$3) and (hierarch$5 with namespace)) and (director$3 with entr$3))) and (distribut$3 with computers)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/28 19:41
L10	34	(((distribut$3 with file with system) and director$3) and (hierarch$5 with namespace)) not ((((distribut$3 with file with system) and director$3) and (hierarch$5 with namespace)) and (director$3 with entr$3))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/28 19:42

L11	44	(serverless with distribut$3) and director$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/28 19:42
L12	18	"global file" and serverless	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/28 19:42
L13	8	(serverless with distribut$3) and director$3 and Byzantine	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/28 19:43
L14	71	serverless with distribut$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/28 19:43
L15	8	(byzantine and directory) and serverless	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/28 19:43
L16	4	(delegat$3 with certificate) and (hierarchical with namespace)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/28 19:44
L17	4	(delegat$3 with certificate) and (delegat$3 with subtree)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/28 19:45
L18	266	delegat$3 with certificate	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/28 19:46
L19	137	L18 and (digital$2 with sign$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/28 19:46
L20	27	L19 and namespace	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/28 19:46

L21	27	L19 and namespace	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/28 19:46
L22	3	L21 and (computer$1 with hierarch$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/28 19:46
L23	3	(delegat$3 with certificate) and (delegat$3 with tree)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/28 19:47
L24	398	hierarch$4 with namespace$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/28 19:47
L25	16	L24 and (digital$2 with certificate$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/28 19:47
S1	6143	distribut$3 with file with system	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/06/18 16:22
S2	11	byzantine with group	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/28 19:39
S3	72	byzantine with fault	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/28 19:39
S4	63	(byzantine with fault) not (byzantine with group)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/06/17 19:06
S5	6	((byzantine with fault) not (byzantine with group)) and director$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/28 19:39

S6	1	(distribut$3 with file with system) and (((byzantine with fault) not (byzantine with group)) not (((byzantine with fault) not (byzantine with group)) and director$3))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/28 19:39
S7	57	((byzantine with fault) not (byzantine with group)) not (((byzantine with fault) not (byzantine with group)) and director$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/06/17 19:43
S8	17	(((byzantine with fault) not (byzantine with group)) not (((byzantine with fault) not (byzantine with group)) and director$3)) and (distribut$3 with computer$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/28 19:38
S9	6143	distribut$3 with file with system	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/06/18 16:22
S10	2207	(distribut$3 with file with system) and director$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/06/18 16:23
S11	52	((distribut$3 with file with system) and director$3) and (hierarch$5 with namespace)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/06/18 17:03
S12	22	(((distribut$3 with file with system) and director$3) and (hierarch$5 with namespace)) and (director$3 with entr$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/28 19:41
S13	30	(((distribut$3 with file with system) and director$3) and (hierarch$5 with namespace)) not ((((distribut$3 with file with system) and director$3) and (hierarch$5 with namespace)) and (director$3 with entr$3))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/28 19:42
S14	27	((((distribut$3 with file with system) and director$3) and (hierarch$5 with namespace)) not ((((distribut$3 with file with system) and director$3) and (hierarch$5 with namespace)) and (director$3 with entr$3))) and (distribut$3 with computers)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/28 19:41

S15	21	(serverless with distribut$3) and director$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/28 19:42
S16	7	Farsite	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/06/21 18:28
S17	2	"global file stores"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/06/21 18:29
S18	198	"global file"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/06/21 18:29
S19	12	"global file" and serverless	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/28 19:42
S20	6	(serverless with distribut$3) and director$3 and Byzantine	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/28 19:43
S21	29	serverless with distribut$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/28 19:43
S22	2	("6067545").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/06/24 11:25
S23	1	(("6067545").PN.) and director$3 and serverless	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/06/24 11:38
S24	0	((("6067545").PN.) and director$3) and distribut$3 and file$1 and hierarchical	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/06/24 11:27

S25	1	((("6067545").PN.) and director$3) and distribut$3 and file$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/06/24 11:27
S26	1	(((("6067545").PN.) and director$3) and distribut$3 and file$1) and lock	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/06/24 11:27
S27	1	(("6067545").PN.) and serverless	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/06/24 12:39
S28	0	byantine and directory	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/06/24 12:39
S29	41	byzantine and directory	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/06/24 12:39
S30	6	(byzantine and directory) and serverless	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/28 19:43
S31	35	(byzantine and directory) not ((byzantine and directory) and serverless)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/06/24 12:40
S32	34	((byzantine and directory) not ((byzantine and directory) and serverless)) and distribut$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/06/24 12:41
S33	198	delegat$3 with certificate	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/08 15:40
S34	2	(delegat$3 with certificate) and (hierarchical with namespace)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/28 19:44

S36	2	(delegat$3 with certificate) and (delegat$3 with subtree)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/28 19:45
S38	50236	open with lock	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/06/25 13:55
S39	4	(open with lock) and serverless	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/08 18:38
S40	18517	insert with lock	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/06/25 13:59
S41	2	(insert with lock) and serverless	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/06/25 13:55
S42	2631	(open with lock) and (insert with lock)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/06/25 13:59
S43	15	((open with lock) and (insert with lock)) and director$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/06/25 14:05
S44	1712	"insert lock"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/06/25 14:06
S45	2	"insert lock" and "delete lock"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/06/25 14:06
S46	2	"insert lock" and (manag$3 with directory)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/06/25 14:07

S47	4	"insert lock" and directory	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/06/25 14:07
S48	359	lock with (insert$3 or creat$3 or add$3) with (files or director$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/06/25 14:28
S49	209	(lock with (insert$3 or creat$3 or add$3) with (files or director$3)) and director$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/06/25 14:28
S50	86	((lock with (insert$3 or creat$3 or add$3) with (files or director$3)) and director$3) and (distribut$3 with file with system)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/06/25 14:28
S51	14	(((lock with (insert$3 or creat$3 or add$3) with (files or director$3)) and director$3) and (distribut$3 with file with system)) and serverless	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/06/25 17:07
S52	4	"09236366"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/06/25 17:08
S58	2	("6029168").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/06/23 19:47
S59	225	delegat$3 with certificate	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/08 15:41
S60	2	S59 and (hierarch$4 with namespace)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/08 15:42
S61	113	S59 and (digital$2 with sign$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/08 15:43

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L26	13	(("5909540") or ("5915096") or ("5950198") or ("5991414") or ("6160552") or ("6738797") or ("6766367") or ("6098079") or ("6167449") or ("6263348") or ("6370547") or ("6405315") or ("6718360")).PN.	USPAT; USOCR	OR	OFF	2005/10/28 20:24
L27	0	26 and delegate	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/28 20:25
L28	1	26 and certificate	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/28 20:24
L29	0	26 and delegation	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/28 20:25

S62	22	S61 and namespace	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/28 19:46
S63	1	S62 and (computer$1 with hierarch$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/28 19:46
S64	20	S62 and hierarch$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/08 15:45
S65	3	(delegat$3 with certificate) and (delegat$3 with tree)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/28 19:47
S66	2	(delegat$3 with certificate) and (delegat$3 with subtree)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/08 16:17
S67	299	hierarch$4 with namespace$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/08 16:18
S68	8	S67 and (digital$2 with certificate$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/28 19:47
S69	1	S67 and ((first with certificate$1) and (second with certificate$1))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/08 16:25
S70	32	serverless with computers	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/08 18:25
S71	5	S59 and S70	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/08 16:25

S72	6	serverless and Byzantine	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/08 18:27
S73	5	S59 and serverless	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/08 18:27
S74	6	serverless and (digital$2 with certificate$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/08 18:36
S75	4	serverless and (digital$2 with certificate$1) and lock	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/08 18:37
S76	6	(byzantine and directory) and serverless	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/08 18:38
S77	5	(open with lock) and serverless	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/08 18:38
S78	27	(("5317728") or ("5991771") or ("6295538") or ("6415372") or ("6463535") or ("6484202") or ("6510426") or ("6522423") or ("6535894") or ("6560706") or ("6704730") or ("6725373") or ("6748538")).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/02/09 12:33
S79	0	S78 and serverless	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/09 11:28
S80	4	S78 and certificate$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/09 11:38
S81	2	S80 and digital	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/09 11:30

S82	2	("5371794").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/02/09 12:33

Terms used **delegation certificate** Found **27** of **166,357**

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Relevance scale

1 A calculus for access control in distributed systems

Martín Abadi, Michael Burrows, Butler Lampson, Gordon Plotkin
September 1993 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 15 Issue 4
Publisher: ACM Press

Full text available: pdf(1.94 MB) Additional Information: full citation, abstract, references, citings, index terms, review

We study some of the concepts, protocols, and algorithms for access control in distributed systems, from a logical perspective. We account for how a principal may come to believe that another principal is making a request, either on his own or on someone else's behalf. We also provide a logical language for accesss control lists and theories for deciding whether requests should be granted.

Keywords: cryptographic protocols, cryptography, modal logic

2 Authentication in the Taos operating system

Edward Wobber, Martín Abadi, Michael Burrows, Butler Lampson
December 1993 **ACM SIGOPS Operating Systems Review , Proceedings of the fourteenth ACM symposium on Operating systems principles SOSP '93**, Volume 27 Issue 5
Publisher: ACM Press

Full text available: pdf(1.45 MB) Additional Information: full citation, abstract, references, citings, index terms

We describe a design and implementation of security for a distributed system. In our system, applications access security services through a narrow interface. This interface provides a notion of identity that includes simple principals, groups, roles, and delegations. A new operating system component manages principals, credentials, and secure channels. It checks credentials according to the formal rules of a logic of authentication. Our implementation is efficient enough to support a substantia ...

3 Authentication in the Taos operating system

Edward Wobber, Martín Abadi, Michael Burrows, Butler Lampson
February 1994 **ACM Transactions on Computer Systems (TOCS)**, Volume 12 Issue 1
Publisher: ACM Press

Full text available: pdf(1.88 MB) Additional Information: full citation, abstract, references, citings, index terms, review

We describe a design for security in a distributed system and its implementation. In our design, applications gain access to security services through a narrow interface. This interface provides a notion of identity that includes simple principals, groups, roles, and

delegations. A new operating system component manages principals, credentials, and secure channels. It checks credentials according to the formal rules of a logic of authentication. Our implementation is efficient enough to sup ...

Keywords: cryptography, mathematical logic

4 Decentralized storage systems: Farsite: federated, available, and reliable storage for an incompletely trusted environment

Atul Adya, William J. Bolosky, Miguel Castro, Gerald Cermak, Ronnie Chaiken, John R. Douceur, Jon Howell, Jacob R. Lorch, Marvin Theimer, Roger P. Wattenhofer

December 2002 **ACM SIGOPS Operating Systems Review**, Volume 36 Issue SI

Publisher: ACM Press

Full text available: pdf(1.87 MB) Additional Information: full citation, abstract, references

Farsite is a secure, scalable file system that logically functions as a centralized file server but is physically distributed among a set of untrusted computers. Farsite provides file availability and reliability through randomized replicated storage; it ensures the secrecy of file contents with cryptographic techniques; it maintains the integrity of file and directory data with a Byzantine-fault-tolerant protocol; it is designed to be scalable by using a distributed hint mechanism and delegatio ...

5 Some thoughts on agent trust and delegation

Yuh-Jong Hu

May 2001 **Proceedings of the fifth international conference on Autonomous agents**

Publisher: ACM Press

Full text available: pdf(339.21 KB) Additional Information: full citation, abstract, references, citings, index terms

In this paper, we are going to show how to build up agent-oriented Public Key Infrastructure(PKI) from SPKI/SDSI and X.509 standards. A variety of delegation mechanisms for agents will be demonstrated under this agent-oriented PKI. The mechanisms include: chain-ruled, threshold, and conditional. The lack of agent security management standards did not allow us to do the agent trust and delegation in legalized manner so we proposed several new communicative acts to satisfy our agent delegatio ...

6 Mobile and Cooperative Systems: An authorization infrastructure for nomadic computing

Kan Zhang, Tim Kindberg

June 2002 **Proceedings of the seventh ACM symposium on Access control models and technologies**

Publisher: ACM Press

Full text available: pdf(198.22 KB) Additional Information: full citation, abstract, references, citings, index terms

We present an infrastructure for flexible and secure access to a group of distributed services in a nomadic computing environment, wherein users access local services from their mobile, wirelessly connected devices. We describe a secure hand-off' protocol, which allows a user to register with a single service that hands off' authorization to access a subset of the services. Our protocol helps maintain the user's privacy. It allows the services (which may be implemented on simple appliances) and ...

Keywords: access control, authorization, mobile computing, nomadic computing, ubiquitous computing

7 Role and task-based access control in the PerDiS groupware platform

George Coulouris, Jean Dollimore, Marcus Roberts

October 1998 **Proceedings of the third ACM workshop on Role-based access control**

Publisher: ACM Press

Full text available: pdf(1.01 MB) Additional Information: full citation, references, index terms

8 Security functions for a file repository

Arne Helme, Tage Stabell-Kulø
April 1997 **ACM SIGOPS Operating Systems Review**, Volume 31 Issue 2
Publisher: ACM Press
Full text available: pdf(469.26 KB) Additional Information: full citation, abstract, index terms

When personal machines are incorporated into distributed systems a new mixture of threats is exposed. The security effort in the MobyDick project is aimed at understanding how privacy can be protected in this new environment. Our claim is that a two-step process for authentication and authorisation is required, but also sufficient. The research vehicle is a distributed file repository.

9 A rule-based framework for role-based delegation and revocation

Longhua Zhang, Gail-Joon Ahn, Bei-Tseng Chu
August 2003 **ACM Transactions on Information and System Security (TISSEC)**, Volume 6 Issue 3
Publisher: ACM Press
Full text available: pdf(1.05 MB) Additional Information: full citation, abstract, references, citings, index terms

Delegation is the process whereby an active entity in a distributed environment authorizes another entity to access resources. In today's distributed systems, a user often needs to act on another user's behalf with some subset of his/her rights. Most systems have attempted to resolve such delegation requirements with ad-hoc mechanisms by compromising existing disorganized policies or simply attaching additional components to their applications. Still, there is a strong need in the large, distrib ...

Keywords: Role, access control, delegation, revocation, rule-based

10 Security and Middleware Services: Towards flexible credential verification in mobile ad-hoc networks

Sye Loong Keoh, Emil Lupu
October 2002 **Proceedings of the second ACM international workshop on Principles of mobile computing**
Publisher: ACM Press
Full text available: pdf(281.24 KB) Additional Information: full citation, abstract, references, index terms

Ad-hoc networks facilitate interconnectivity between mobile devices without the support of a network infrastructure. In this paper we propose a flexible credential verification mechanism, which improves the likelihood that participants in an ad-hoc network can verify each other's credentials despite the lack of access to certification and attribute authorities. Users maintain Credential Assertion Statements (CASs), which are formed through extraction of X.509 and attribute certificates into an i ...

Keywords: authentication, credential verification, security, trust

11 A rule-based framework for role based delegation

Longhua Zhang, Gail-Joon Ahn, Bei-Tseng Chu
May 2001 **Proceedings of the sixth ACM symposium on Access control models and technologies**
Publisher: ACM Press
Full text available: pdf(238.20 KB) Additional Information: full citation, abstract, references, citings, index terms

In current role-based systems, security officers handle assignments of users to roles. However, fully depending on this functionality may increase management efforts in a

distributed environment because of the continuous involvement from security officers. The emerging technology of role-based delegation provides a means for implementing RBAC in a distributed environment with empowerment of individual users. The basic idea behind a role-based delegation is that users themselves may delegate ...

Keywords: access control, delegation, role, rule-based

12 A framework for distributed authorization

Thomas Y. C. Woo, Simon S. Lam

December 1993 **Proceedings of the 1st ACM conference on Computer and communications security**

Publisher: ACM Press

Full text available: pdf(639.02 KB) Additional Information: full citation, references, citings, index terms

13 Authentication in distributed systems: theory and practice

Butler Lampson, Martín Abadi, Michael Burrows, Edward Wobber

September 1991 **ACM SIGOPS Operating Systems Review , Proceedings of the thirteenth ACM symposium on Operating systems principles SOSP '91**, Volume 25 Issue 5

Publisher: ACM Press

Full text available: pdf(2.33 MB) Additional Information: full citation, abstract, references, citings, index terms

We describe a theory of authentication and a system that implements it. Our theory is based on the notion of principal and a "speaks for" relation between principals. A simple principal either has a name or is a communication channel; a compound principal can express an adopted role or delegation of authority. The theory explains how to reason about a principal's authority by deducing the other principals that it can speak for; authenticating a channel is one important application. We use the th ...

14 Posters: agent applications: Access control with safe role assignment for mobile agents

G. Navarro, J. Borrell, J. A. Ortega-Ruiz, S. Robles

July 2005 **Proceedings of the fourth international joint conference on Autonomous agents and multiagent systems AAMAS '05**

Publisher: ACM Press

Full text available: pdf(232.60 KB) Additional Information: full citation, abstract, references, index terms

Mobile agent systems provide new perspectives for distributed e-commerce applications. Sea-of-Data (SoD) applications are those that need to process huge quantities of distributed data. They present specific restrictions, which make mobile agent systems one of the most feasible technologies to implement them. In this paper we propose a mechanism to safely assign roles to mobile agents and an access control method based in *Role-based Access Control* (RBAC). The access control method provide ...

Keywords: SPKI, access control, mobile agents, security

15 Access control policy implementation: On the role of roles: from role-based to role-sensitive access control

Xuhui Ao, Naftaly H. Minsky

June 2004 **Proceedings of the ninth ACM symposium on Access control models and technologies**

Publisher: ACM Press

Full text available: pdf(212.00 KB) Additional Information: full citation, abstract, references, index terms

This paper maintains that for an access-control (AC) mechanism tosupport a wide range of policies, it is best to dispense with any built-insemantics for roles in the mechanism

itself---be it the semantics of RBAC, orany other---leaving such semantics to be defined by particular policies. Inother words, an AC mechanism should be sensitive to roles, allowingspecific policies to take roles into account for their authorizationdecisions. But it should not be based on any particular interpretationof t ...

Keywords: access control policy specification and decentralized enforcement, law-governed interaction, role-based access control, security

16 Next generation access control models: Implementing access control to people location information

Urs Hengartner, Peter Steenkiste

June 2004 **Proceedings of the ninth ACM symposium on Access control models and technologies**

Publisher: ACM Press

Full text available: pdf(164.30 KB) Additional Information: full citation, abstract, references, index terms

Ubiquitous computing uses a variety of information for which access needs to be controlled. For instance, a person's current location is asensitive piece of information, which only authorized entities should be able to learn. Several challenges arise in the specification and implementation of policies controlling access to location information. For example, there can be multiple sources of location information, the sources can be within different administrative domains, different administrative ...

Keywords: certificates, delegation, dsa, location, rsa, spki/sdsi, trust

17 Authentication and signature schemes: Origin authentication in interdomain routing

William Aiello, John Ioannidis, Patrick McDaniel

October 2003 **Proceedings of the 10th ACM conference on Computer and communications security**

Publisher: ACM Press

Full text available: pdf(268.26 KB) Additional Information: full citation, abstract, references, citings, index terms

Attacks against Internet routing are increasing in number and severity. Contributing greatly to these attacks is the absence of *origin authentication*: there is no way to validate claims of address ownership or location. The lack of such services enables not only attacks by malicious entities, but indirectly allow seemingly inconsequential miconfigurations to disrupt large portions of the Internet. This paper considers the semantics, design, and costs of origin authentication in interdomai ...

Keywords: BGP, address management, delegation, routing, security

18 Agents, interactions, mobility and systems: Certificates for mobile code security

Hock Kim Tan, Luc Moreau

March 2002 **Proceedings of the 2002 ACM symposium on Applied computing**

Publisher: ACM Press

Full text available: pdf(543.59 KB) Additional Information: full citation, abstract, references, index terms

The problem of protecting mobile code from malicious hosts is an important security issue, for which many solutions have been proposed. We describe a method to adapt an existing technique, execution tracing, to enhance its flexibility in deployment for a large scale mobile agent system. This is achieved through the introduction of a trusted third party, the verification server, which undertakes the verification of execution traces on behalf of the platform launching the agent. The server constru ...

Keywords: mobile agent certificates, mobile agent security, mobile agent security framework

19 Secure Data Publishing and Certificate Management: Distributed credential chain discovery in trust management: extended abstract

Ninghui Li, William H. Winsborough, John C. Mitchell

November 2001 **Proceedings of the 8th ACM conference on Computer and Communications Security**

Publisher: ACM Press

Full text available: pdf(282.18 KB) Additional Information: full citation, abstract, references, citings, index terms

We give goal-oriented algorithms for discovering credential chains in *RT*o, a role-based trust-management language introduced in this paper. The algorithms search credential graphs, a representation of *RT*o credentials. We prove that evaluation based on reachability in credential graphs is sound and complete with respect to the set-theoretic semantics of *RT*o . *RT*o is more expressive than SDSI 2.0, so our algorithms can perform ...

20 Position papers: An open architecture for secure interworking services

Richard Hayton, Ken Moody

September 1996 **Proceedings of the 7th workshop on ACM SIGOPS European workshop: Systems support for worldwide applications**

Publisher: ACM Press

Full text available: pdf(798.18 KB) Additional Information: full citation, abstract, references, citings

There is a developing need for applications and distributed services to cooperate or *inter-operate*. Current mechanisms can hide the heterogeneity of host operating systems and abstract the issues of distribution and object location. However, in order for systems to inter-operate *securely*there must also be ways to hide differences in security policies, or at least to support negotiation between them.Other proposals for the interworking of security mechanisms have focussed on the ...

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1. **A distributed trust model for e-commerce applications**
   Lei, H.; Shoja, G.C.S.;
   e-Technology, e-Commerce and e-Service, 2005. EEE '05. Proceedings. The 2005 IEEE International Conference on
   29 March-1 April 2005 Page(s):290 - 293
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